PROCESS BASED SECURITY SYSTEM AUTHENTICATION SYSTEM AND METHOD

ABSTRACT OF THE DISCLOSURE

A system and method for authenticating a user in a process-based security system between an authenticating process and an authentication module, begins when the authenticating process sends an initiation request to an authentication module. The authentication module modifies a task structure of the authenticating process to indicate the initiation request and generates a random number. The random number is sent to the authenticating process. The authenticating process performs a transformative function on said random number and a user password to form first authenticating data. The first authenticating data and user identification data is sent to the authentication module. The authentication module retrieves a user password associated with the received user identification data and performs the transformative function on the random number and said retrieved user password to form second authenticating data. The first authenticating data is compared with the second authenticating data, such that when the first authenticating data is equal to the second authenticating data, the user identified by the user identification data is authenticated.